	Application No.	Applicant(s)
Notice of Allowability	10/633,696	DORNING, PHILIP
	Examiner	Art Unit
	Lana N. Le	2618
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet wi 5 (OR REMAINS) CLOSED in) or other appropriate commining the commining of the commining of the commining of the commining of the control of the	ith the correspondence address n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>3/19/07</u> .		
2. The allowed claim(s) is/are <u>1-3 and 5-28</u> .		
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM 	e been received. e been received in Application ocuments have been receive	on No ed in this national stage application from the
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	AENT Of this application.	
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s)	- 5-4	
1. Notice of References Cited (PTO-892)		formal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./	ummary (PTO-413), /Mail Date
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛭 Examiner's	Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	<u> -</u> .

Page 2

Application/Control Number: 10/633,696

Art Unit: 2618

EXAMINER'S AMENDMENT

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with applicant's representative, Alicia Choi, on 6/11/07.
- 3. The application has been amended as follows:
 - cancel claim 29.

Allowable Subject Matter

- 4. Claims 1-3 and 5-28 are allowable over the cited prior art.
- 5. The following is an examiner's statement of reasons for allowance:

Regarding independent claims 1, 27, and 28, the cited prior art disclose a mixer arrangement and method comprising:

a first mixer having a first signal input configured to receive a first signal including a frequency of which is to be changed, and a second mixer having at least one frequency input configured to receive the input frequency and having at least one output.

However, the cited prior art fail to disclose or suggest:

a second signal input configured to receive a second signal including an inverse of the first signal, a first frequency input configured to receive an input

Application/Control Number: 10/633,696

Art Unit: 2618

frequency, a second frequency input configured to receive an inverse of the input frequency, a first output, and a second output, said first mixer being configured to mix the first signal with the first input frequency to provide an output which is output by the first output and said first mixer being configured to mix the second signal with the second input frequency to provide an output which is output by said second output; wherein the first output of the first mixer and at least one output of said second mixer being combined to cancel unwanted components in the outputs of said mixers, and wherein said unwanted components comprise said input frequency.

Conclusion

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F 9:30-18:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on (571) 272-7899.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

6-11-07

LANA LE PRIMARY EXAMINER

LNL /Inl/